

Title (en)
FORGED DISSIMILAR METAL ASSEMBLY & METHOD

Publication
EP 0126930 B1 19880713 (EN)

Application
EP 84104106 A 19840412

Priority
US 49834783 A 19830526

Abstract (en)
[origin: US4608742A] A mechanically rigid joint is formed between two different metals by completing the joint in a forging operation. A part (14) made of one metal is placed in a die form (20) and is maintained at a temperature below that required for forging. A billet (23) made of the material from which the second part (13) is to be formed is placed in the die (20) so that the billet (23) can be formed into the second part (13), engaging the first part (14) at an interface (16) defining the joint. The joined parts (13, 14) are then machined into their final shape. The joint (16) is stabilized by maintaining appropriate temperatures of the materials to compensate for expansion and contraction after forging, and by providing suitable coatings for the materials, particularly at the interface (16).

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CPC (source: EP US)
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Cited by
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